

Claim 33, lines 1 and 2, delete "any one of Claims 25 to 32" and insert --Claim 25--.

Claim 38, lines 1 and 2, delete "which is claimed in any one of Claims 25 to 37" and insert --claimed in Claim 25--.

Claim 72, line 1, delete "or 71".

Claim 73, line 1, delete "or 71".

Claim 80, lines 1 and 2, delete "any one of Claims 70 to 79" and insert --Claim 70--.

Claim 88, line 1, delete "or 87".

Claim 89, lines 1 and 2, delete "any one of Claims 86 to 88" and insert --Claim 86--.

Claim 90, line 2, delete "any one of Claims 70 to 85" and insert --Claim 70--.

91. (Amended) The recombinant DNA molecule [claimed in Claim 90,] comprising a DNA fragment claimed in Claim 70, wherein said DNA fragment [claimed in any one of Claims 70 to 85] is combined in a plasmid vector.

Claim 92, line 1, delete "or";
line 2, delete "91".

Claim 93, line 1, delete "or";
line 2, delete "91".

Claim 94, line 2, delete "any one of Claim 90 to 93" and insert --Claim 90--.

Claim 97, line 8, delete "any one of Claims 94 to 96" and insert --Claim 94--.

98. (Amended) A process for producing a recombinant novel transferase which is encoded by a DNA fragment [claimed in any one of Claims 70 to 85] comprising a DNA sequence which codes for the novel transferase which acts on a substrate saccharide, the substrate saccharide being composed of at least three sugar units, wherein at least three glucose residues from the reducing end are α -1,4-linked, so as to transfer the first α -1,4 linkage from the reducing end into an α -1, α -1 linkage, wherein said process comprises cultivating a host cell claimed in [any one of Claims 94 to 96] Claim 94 to produce said recombinant novel transferase in the culture and collecting the transferase.

Claim 99, line 8, delete "or 98".

94
101. (Amended) The DNA fragment [claimed in Claim 100] comprising a DNA sequence which codes for the novel amylase claimed in [claim] Claim 26, wherein said novel amylase acts on a substrate saccharide, the substrate saccharide being composed of at least three sugar units wherein at least three sugar units from the reducing end are glucose residues, so as to liberate principally monosaccharides and/or disaccharides by hydrolyzing the substrate saccharide from the reducing end side.

Claim 102, line 1, delete "or 101".

Claim 103, lines 1 and 2, delete "any one of Claims 100 to 102" and insert

--Claim 100--.

Claim 105, lines 1 and 2, delete "any one of Claims 100 to 104" and insert

--Claim 100--.

Claim 106, lines 1 and 2, delete "any one of Claims 100 to 105" and insert

--Claim 100--.

Claim 107, lines 1 and 2, delete "any one of Claims 100 to 105" and insert

--Claim 100--.

Claim 115, lines 1 and 2, delete "any one of Claims 100 to 114" and insert

--Claim 100--.

Claim 126, lines 1 and 2, delete "any one of Claims 123 to 125" and insert

--Claim 123--.

Claim 127, lines 1 and 2, delete "any one of Claims 123 to 125" and insert

--Claim 123--.

Claim 128, lines 1 and 2, delete "any one of Claims 123 to 127" and insert

--Claim 123--.

Claim 129, line 2, delete "any one of Claims 100 to 122" and insert --Claim 100--.

Claim 130, lines 2 and 3, delete "claimed in any one of Claims 100 to 122".

Claim 131, line 2, delete "or 130".

Claim 132, line 2, delete "or 130".

Claim 133, line 2, delete "any one of Claim 129 to 132" and insert --Claim 129--.

Claim 136, lines 12 and 13, delete "any one of Claims 133 to 135" and insert
--Claim 133--.

137. (Amended) A process for producing a recombinant novel amylase which is encoded by a DNA fragment claimed in [any one of Claims 100 to 122] Claim 100 [or which contains a polypeptide claimed in any one of Claims 123 to 128], wherein said process comprises cultivating a host cell [claimed in any one of Claims 133 to 135] transferred with a recombinant DNA molecule comprising a DNA fragment comprising sequence which codes for an amino acid sequence shown in Sequence No. 6 or an equivalent sequence thereof, to produce said recombinant novel amylase in the culture, and collecting the amylase.

138. (Amended) A process for producing α,α -trehalose, wherein the process comprises putting the novel transferase [claimed in any one of Claim 1 to 13, or the recombinant novel transferase claimed in Claim 97 or 98], which acts on a substrate saccharide, the substrate saccharide being composed of at least three sugar units, wherein at least three glucose residues from the reducing end are α -1,4-linked, so as to transfer the first α -1,4 linkage from the reducing end into an α -1, α -1 linkage and the recombinant novel amylase claimed in [claim] Claim 136 into contact with a saccharide, the saccharide being composed of at least three sugar units wherein at least three glucose residues from the reducing end are α -1,4-linked.

139. (Amended) A process for producing α,α -trehalose, wherein the process comprises putting the recombinant novel transferase [claimed in Claim 97 or 98], which acts on a substrate saccharide, the substrate saccharide being composed of at least three sugar units, wherein at least three glucose residues from the reducing end are α -1,4-linked, so as to transfer the first α -1,4 linkage from the reducing end into an α -1, α -1 linkage and the novel amylase claimed in [any one of] Claim 25 [to 37], [or the recombinant novel amylase claimed in claim 136 or 137] into contact with a saccharide, the saccharide being

as
concluded
composed of at least three sugar units wherein at least three glucose residues from the reducing end are α -1,4-linked.

Claim 140, line 1, delete "or 139".

Claim 144, line 1, delete "or 139".

Claim 145, lines 1 and 2, delete "any one of Claims 138 to 144" and insert
--Claim 138--.

Please add the following new claims:

--146. A process for producing a recombinant novel transferase comprising an amino acid sequence shown in Sequence No. 2 or an equivalent sequence thereof which contains a polypeptide, wherein said process comprises cultivating a host cell claimed in Claim 94 to produce said recombinant novel transferase in the culture and collecting the transferase.

147. A process for producing a recombinant novel amylase which contains a polypeptide claimed in Claim 123, wherein said process comprises cultivating a host cell transferred with a recombinant DNA molecule comprising a DNA fragment comprising a DNA sequence which codes for an amino acid sequence shown in Sequence No. 6 or an equivalent sequence thereof to produce said recombinant novel amylase in the culture, and collecting the amylase.

148. A process for producing α , α -trehalose, wherein the process comprises putting the recombinant novel transferase which acts on a substrate saccharide, the substrate saccharide being composed of at least three sugar units wherein at least three glucose residues from the reducing end are α -1,4-linked, so as to transfer the first α -1,4 linkage from the reducing end into an α -1, α -1 linkage and the recombinant novel amylase claims in claim 136 into contact with a saccharide, the saccharide being composed of at least three sugar units wherein at least three glucose residues from the reducing end are α -1,4-linked.

149. A process for producing α , α -trehalose, wherein the process comprises putting the recombinant novel transferase which acts on a substrate saccharide, the substrate saccharide being composed of at least three sugar units wherein at least three glucose residues from the reducing end are α -1,4-linked, so as to transfer the first α -1,4 linkage